

# Burke Park–Adaptive Lake Management Plan

Boulder, Colorado



In 2002, low water levels caused a fish kill in Thunderbird Lake, and water levels have remained low since that time. Biohabitats was contracted in September 2007 to investigate long-term options for lake management. Public meetings were conducted to educate the community,

discuss options, and solicit input. Because of the aesthetic desires of many residents in the community, the focus of the study was to investigate possible sources of water to refill the lake and maintain it at its former level. In addition to aesthetics, water quality, costs, water rights, and wildlife

*Adaptive lake management practices help maintain desirable water quality, valuable wetlands, and community resources in the face of mounting challenges to shallow lake ecosystems in the semi-arid west.*

habitat were considered. The options included repairing the tile drain, redirecting storm-water, installing a groundwater well, and continuing adaptive management. Eight monitoring wells and a surface water station were installed to assist in evaluating the interrelationship between groundwater and surface water and selection of viable, sustainable options.

An Adaptive Management Plan prepared by Biohabitats set a framework for monitoring and adjusting management practices based on a series of evaluation criteria and response actions. Annual monitoring reports were provided to the City to assist

them in evaluating their progress and adjusting their management practices. After a 3-year monitoring and pilot period, the citizens and City Council were able to make an informed decision about the cost and long-term approaches for maintaining this neighborhood resource.

In addition to the adaptive management project, Biohabitats worked with the City and a nearby school on an outreach and education effort that included the students in park planning.

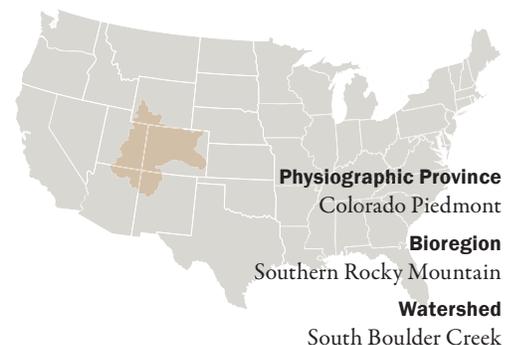
#### SERVICES

- Inventory & Assessments
- Planning
- Public Outreach

*conservation planning  
ecological restoration  
regenerative design*



800.220.0919  
www.biohabitats.com



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